

US EPA ARCHIVE DOCUMENT

CATALOG DOCUMENTATION
NATIONAL LAKE ASSESSMENT DATABASE
NORTHEAST REGION 2007
LAKE IDENTIFICATION STATUS

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1. DATASET IDENTIFICATION

- 1.1 Title of Catalog document
National Lake Assessment (NLA) Database
Northeast Region 2007
Lake Identification Status

- 1.2 Author of the Catalog entry
Melissa Hughes, Raytheon MOS

- 1.3 Catalog revision date
July 2011

- 1.4 Dataset name
Lake Identification Status

- 1.5 Task Group
National Lake Assessment

- 1.6 Dataset identification code
NA

- 1.7 Version
NA

- 1.8 Request for Acknowledgment
EPA requests that all individuals who download National Lake Assessment data acknowledge the source of these data in any reports, papers, or presentations. If you publish these data, please include a statement similar to: "Some or all of the data described in this article were produced by the U. S. Environmental Protection Agency through its National Lake Assessment (NLA) Program".

2. INVESTIGATOR INFORMATION

- 2.1 Principal Investigators
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John Kiddon, U.S. EPA NHEERL-AED
Jeff Hollister, U.S. EPA NHEERL-AED

2.2 Sample Collection Investigators

NA

2.3 Sample Processing Investigators

NA

3. DATASET ABSTRACT

3.1 Abstract of the Dataset

The Lake Status (NLA_WBID) data set reports status and comments on the lakes in the National Lakes Assessment program and their geographic location and association with the National Hydrography Database (NHD).

3.2 Keywords for the Dataset

locational accuracy, National Lakes Assessment, National Hydrography Database, lake status, Lakes Ecosystem Services

4. OBJECTIVES AND INTRODUCTION

4.1 Program Objective

The U.S. Environmental Protection Agency (EPA), in partnership with state and tribal organizations, has designed the Survey of the Nation's Lakes to periodically assess the condition of the Nation's surface waters. The National Lake Assessment is a statistical assessment of the condition of our Nation's lakes, ponds, and reservoirs and is designed to: 1) Assess the condition of the Nation's Lakes; 2) Establish a baseline to compare future surveys for trends assessment and evaluate trends since the 1970's National Eutrophication Survey Study and 3) Help build State and Tribal capacity for monitoring and assessment and promote collaboration across jurisdictional boundaries. This survey will generate a statistically-valid report on the condition of our Nation's water resources and identify key stressors to this system. The goal of the Nation's Lakes project is to address two key questions about the quality of the Nation's lakes, ponds, and reservoirs: 1) What percent of the Nation's lakes are in good, fair, and poor condition for key indicators of trophic state, ecological health, and recreation? and 2) What is the relative importance of key stressors such as nutrients and pathogens?

The Survey is designed to be completed during the summer growing season before lake turnover (June through September). Field crews will collect a variety of measurements and indicators from an "index site" located at the deepest point of the lake (≤ 50 meters, and near the center if sampling a reservoir), and document conditions of the littoral zone and shoreline from stations around the lake.

EPA selected sampling locations using a probability based survey design. Sample Surveys have been used to determine the status of a population or resources of interest using a representative sample of a relatively few members or sites. Using this survey design allows data from the subset of sampled lakes to be applied to the larger target population and assessments with known confidence bounds to be made.

4.2 Dataset Objective

The objective of the Lake Identification Status is to present lake status.

4.3 Dataset Background Discussion

The data set contains lake names, ids and status from the 2007 National Lakes Assessment Northeast region lakes from the states of Maine to West Virginia.

4.4 Summary of Dataset Parameters

National Lakes Assessment lake names, ids and status from the 2007 Northeast region.

5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition

NA

5.1.1 Sampling Objective

NA

5.1.2 Sample Collection: Methods Summary

NA

5.1.3 Beginning Sampling Dates

5/8/2007

5.1.4 Ending Sampling Dates

10/18/2007

5.1.5 Sampling Platform

NA

5.1.6 Sampling Equipment

NA

5.1.7 Manufacturer of Sampling Equipment

Not applicable

5.1.8 Key Variables

Not applicable

5.1.9 Sample Collection: Calibration

NA

5.1.10 Sample Collection: Quality Control

NA

5.1.11 Sample Collection: References

USEPA. 2007. Survey of the Nation's Lakes. Field Operations Manual.
EPA 841-B-07-004. US Environmental Protection Agency, Washington, DC.
(http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534)

5.1.12 Sample Collection: Alternate Methods

NA

5.2 Data Preparation and Sample Processing

Physical data did not require analytical processing.

5.2.1 Sample Processing Objective

NA

5.2.2 Sample Processing: Methods Summary

NA

5.2.3 Sample Processing: Calibration

NA

5.2.4 Sample Processing: Quality Control

NA

5.2.5 Sample Processing: References

NA

5.2.6 Sample Processing: Alternate Methods

Not Applicable

6. DATA ANALYSIS AND MANIPULATIONS

6.1 Name of New or Modified Value

NA

6.2 Data Manipulation Description

The data set contains data collected in 2007 from Northeast region lakes from the states of Maine to Connecticut. Lake latitude and longitude were used to evaluate the locational accuracy of the lakes chosen for the National Lakes Assessment program. The data were imported into ArcGIS, and converted to a shapefile. Waterbodies were selected and compared to the closest NHDPlus waterbody, WB IDs calculated and status assigned.

7. DATA DESCRIPTION

7.1 Description of Parameters

7.1.1 Components of the Dataset

Attribute Name	Format	Description
WB_ID	NUMBER(10)	Unique Waterbody ID
NLA_ID	VARCHAR2(60 BYTE)	National Lake Assessment study unique ID for each lake
NLA_Name	VARCHAR2(125 BYTE)	National Lake Assessment lake name
Rank	NUMBER(1,0)	NLA unique rank (1 or 2); 1 means that this is the primary NLA_ID to associate with the WB_ID
NLA_Status	VARCHAR2(25 BYTE)	Association of NLA_ID Rank to number of WB_IDs associated with a lake; 1=OK; >1= Flag, Duplicate NLA_ID, Not Lake
NLA_Comment	VARCHAR2(2000 BYTE)	Comment on NLA_ID lake status and location in NHD database

7.1.2 Precision of Reported Values

NA

7.1.3 Minimum Value in Dataset / 7.1.4 Maximum Value in Dataset

PARAMETER	MIN	MAX
Rank	1	2

7.2 Data Record Example

7.2.1 Column Names for Example Records

WB_ID,NLA_ID,NLA_Name,Rank,NLA_Status,NLA_Comment

7.2.2 Example Data Records

7711476,NLA06608-0006,Morris Reservoir,1,OK,Name & Location Match
4489294,NLA06608-0013,Mirror Lake,1,OK,Name & Location Match
6131075,NLA06608-0022,Nelson Pond,1,OK,Name & Location Match

8. GEOGRAPHIC AND SPATIAL INFORMATION

8.1 Minimum Longitude (Westernmost)

-80.208767 decimal degrees

8.2 Maximum Longitude (Easternmost)

-66.99852 decimal degrees

8.3 Minimum Latitude (Southernmost)

36.702015 decimal degrees

8.4 Maximum Latitude (Northernmost)

47.416054 decimal degrees

8.5 Name of area or region

The National Lake Assessment Northeast Region covers the northeastern US from Maine to West Virginia.

9. QUALITY CONTROL AND QUALITY ASSURANCE

9.1 Measurement Quality Objectives

NA

9.2 Data Quality Assurance Procedures

NA

9.3 Actual Measurement Quality

NA

10. DATA ACCESS

10.1 Data Access Procedures

Access data at: <http://www.epa.gov/aed/lakesecoservices> by clicking on the Database link.

10.2 Data Access Restrictions

None

10.3 Data Access Contact Persons

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10.4 Dataset Format

Comma-delimited ASCII files

10.5 Information Concerning Anonymous FTP

Not available

10.6 Information Concerning WWW

See Section 10.1 for WWW access

10.7 EMAP CD-ROM Containing the Dataset
Data not available on CD-ROM

11. REFERENCES

- USEPA. 2007. Survey of the Nation's Lakes. Field Operations Manual. EPA 841-B-07-004. US Environmental Protection Agency, Washington, DC. (http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534)
- USEPA. 2009. Survey of the Nation's Lakes: Integrated Quality Assurance Project Plan. EPA/841-B-07-003. US Environmental Protection Agency, Washington, DC. (http://water.epa.gov/type/lakes/lakessurvey_index.cfm#CP_JUMP_474534)
- USEPA. 2006. Survey of the Nation's Lakes. Lake Evaluation Guidelines. EPA 841-B-06-003. US Environmental Protection Agency, Washington, DC.

12. TABLE OF ACRONYMS

EPA	Environmental Protection Agency
NLA	National Lakes Assessment
QA/QC	Quality Assurance/Quality Control
WWW	World Wide Web

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